

SEQUENCE LISTING

<110> Cohen, Philip
Kobayashi, Takayasu
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<120> Methods

<130> 002.00160

<140> US 09/868,131

<141> 2002-04-11

<150> PCT/GB99/04232

<151> 1999-12-14

<150> GB 9919676.8

<151> 1999-08-19

<150> US 60/112,217

<151> 1998-12-14

<160> 44

<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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Asn Gly Asn Ile Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro
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Thr Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys
35 40 45

Val Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys
50 55 60

Val Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile
65 70 75 80

Met Ala Glu Arg Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu

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Ser	Ala	Ile	Gly	Tyr	Leu	His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu
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Lys	Pro	Glu	Asn	Ile	Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr
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Asp	Phe	Gly	Leu	Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser
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Tyr	Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser
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Gln	Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	Gly
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Arg	Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	Lys	Asp
			260						265					270	
Gln	Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	Ile	Lys	Asn
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His	Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	Tyr	His	Lys	Arg
			290						295					300	
Leu	Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Thr	Gly	Pro	Ala	Asp	Leu	Lys
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His	Phe	Asp	Pro	Glu	Phe	Thr	Gln	Glu	Ala	Val	Ser	Lys	Ser	Ile	Gly
				325					330					335	
Cys	Thr	Pro	Asp	Thr	Val	Ala	Ser	Ser	Ser	Gly	Ala	Ser	Ser	Ala	Phe

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 20 25 30

Thr Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys
 35 40 45

Val Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys
 50 55 60

Val Leu Gln Lys Lys Ser Ile Leu Lys Asn Lys Glu Gln Asn His Ile
 65 70 75 80

Met Ala Glu Arg Asn Val Leu Leu Lys Asn Val Arg His Pro Phe Leu
 85 90 95

Val Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val
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<210> 4

<211> 429

<212> PRT

<213> Homo sapiens

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Met Ala Leu Lys Ile Pro Ala Lys Arg Ile Phe Gly Asp Asn Phe Asp
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Pro Asp Phe Ile Lys Gln Arg Arg Ala Gly Leu Asn Glu Phe Ile Gln
20 25 30

Asn Leu Val Arg Tyr Pro Glu Leu Tyr Asn His Pro Asp Val Arg Ala
35 40 45

Phe Leu Gln Met Asp Ser Pro Lys His Gln Ser Asp Pro Ser Glu Asp
50 55 60

Glu Asp Glu Arg Ser Ser Gln Lys Leu His Ser Thr Ser Gln Asn Ile
65 70 75 80

Asn Leu Gly Pro Ser Gly Asn Pro His Ala Lys Pro Thr Asp Phe Asp
85 90 95

Phe Leu Lys Val Ile Gly Lys Gly Ser Phe Gly Lys Val Leu Leu Ala
100 105 110

Lys Arg Lys Leu Asp Gly Lys Phe Tyr Ala Val Lys Val Leu Gln Lys
115 120 125

Lys Ile Val Leu Asn Arg Lys Glu Gln Lys His Ile Met Ala Glu Arg
130 135 140

Asn Val Leu Leu Lys Asn Val Lys His Pro Phe Leu Val Gly Leu His
145 150 155 160

Tyr Ser Phe Gln Thr Thr Glu Lys Leu Tyr Phe Val Leu Asp Phe Val
165 170 175

Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg Ser Phe Pro
180 185 190

Glu His Arg Ala Arg Phe Tyr Ala Ala Glu Ile Ala Ser Ala Leu Gly
195 200 205

Tyr Leu His Ser Ile Lys Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn
210 215 220

Ile Leu Leu Asp Ser Val Gly His Val Val Leu Thr Asp Phe Gly Leu
 225 230 235 240

Cys Lys Glu Gly Ile Ala Ile Ser Asp Thr Thr Thr Thr Phe Cys Gly
 245 250 255

Thr Pro Glu Tyr Leu Ala Pro Glu Val Ile Arg Lys Gln Pro Tyr Asp
 260 265 270

Asn Thr Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr Glu Met Leu
 275 280 285

Tyr Gly Leu Pro Pro Phe Tyr Cys Arg Asp Val Ala Glu Met Tyr Asp
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Asn Ile Leu His Lys Pro Leu Ser Leu Arg Pro Gly Val Ser Leu Thr
 305 310 315 320

Ala Trp Ser Ile Leu Glu Glu Leu Leu Glu Lys Asp Arg Gln Asn Arg
 325 330 335

Leu Gly Ala Lys Glu Asp Phe Leu Glu Ile Gln Asn His Pro Phe Phe
 340 345 350

Glu Ser Leu Ser Trp Ala Asp Leu Val Gln Lys Lys Ile Pro Pro Pro
 355 360 365

Phe Asn Pro Asn Val Ala Gly Pro Asp Asp Ile Arg Asn Phe Asp Thr
 370 375 380

Ala Phe Thr Glu Glu Thr Val Pro Tyr Ser Val Cys Val Ser Ser Asp
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Tyr Ser Ile Val Asn Ala Ser Val Leu Glu Ala Asp Asp Ala Phe Val
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Gly Phe Ser Tyr Ala Pro Pro Ser Glu Asp Leu Phe Leu
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<212> DNA

<213> Homo sapiens

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<210> 6

<211> 2404

<212> DNA

<213> Homo sapiens

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gccaagagaa tatttgggtga taattttgat ccagatttta ttaaacaaag acgagcagga 300
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<212> PRT

<213> Homo sapiens

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10

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Cys Thr Gly Arg Gly Gly Trp Arg Gly Gln Trp Cys Leu Lys Pro Trp

20

25

30

Met Gly Gly Ala Asp Pro Pro Thr Pro Thr Leu Ser Cys Leu Leu Leu

35

40

45

Pro Val Pro Pro Glu Leu Pro Asp His Cys Tyr Arg Met Asn Ser Ser

50

55

60

Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg Ala Asn Gly Asn Ile

65

70

75

80

Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro Thr Asp Phe Asp
85 90 95

Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys Val Leu Leu Ala
100 105 110

Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys Val Leu Gln Lys
115 120 125

Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile Met Ala Glu Arg
130 135 140

Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu Val Gly Leu Arg
145 150 155 160

Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val Leu Asp Tyr Val
165 170 175

Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg Arg Phe Leu
180 185 190

Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser Ala Ile Gly
195 200 205

Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys Pro Glu Asn
210 215 220

Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp Phe Gly Leu
225 230 235 240

Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr Phe Cys Gly
245 250 255

Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu Pro Tyr Asp
260 265 270

Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr Glu Met Leu
275 280 285

His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser Gln Met Tyr Glu
290 295 300

Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly Arg Thr Val Ala
305 310 315 320

Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp Gln Arg Gln Arg
325 330 335

Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn His Val Phe Phe
 340 345 350

Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg Leu Thr Pro Pro
 355 360 365

Phe Asn Pro Asn Val Thr Gly Pro Ala Asp Leu Lys His Phe Asp Pro
 370 375 380

Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly Cys Thr Pro Asp
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Tyr Ala Pro Glu Asp Asp Asp Ile Leu Asp Cys
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<211> 40

<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 11

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<212> DNA

<213> Artificial Sequence

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<210> 12

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<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 13

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR primer

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<210> 14

<211> 27

<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 15

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<212> DNA

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<210> 16

<211> 24

<212> DNA

<213> Artificial Sequence

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<210> 17

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<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 18

<211> 25

<212> DNA

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<210> 19

<211> 26

<212> DNA

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<210> 20

<211> 26

<212> DNA

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<210> 21

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<212> DNA

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<210> 22

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<223> Description of Artificial Sequence:PCR primer

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<210> 25

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<210> 26

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<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 27

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<212> DNA

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<223> Description of Artificial Sequence:PCR primer

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<210> 28

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<212> DNA

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ggatcctgga cagtcacaaa caccag

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<210> 29

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<212> DNA

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<210> 30

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peptide

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<210> 34
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<212> PRT

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Arg Pro Arg Thr Ser Thr Phe

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<210> 36

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<210> 41
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<212> PRT
<213> Artificial Sequence

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peptide

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Arg Pro Arg Thr Ser Ser Val
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<210> 42
<211> 7
<212> PRT
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<210> 43
<211> 7
<212> PRT
<213> Artificial Sequence

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<400> 43
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<210> 44
<211> 7
<212> PRT
<213> Artificial Sequence

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